

POLYMER COMPOSITE PACKAGING FILM FOR FRESH MEAT AND VEGETABLE PRODUCE

Abstract of the Disclosure

- 5 A composite film is compounded to have a film surface with visual clarity and gas permeability (specifically OTR) control. A first preferred embodiment is a monolayer composite film that includes a PVC polymer film substrate. To provide the composite film with anti-fog and OTR control properties, one or more surface active agents and plasticizers, respectively, are incorporated into the polymer
- 10 substrate. The orientation of the PVC molecular chain also governs the OTR. Since heat and stretching affect the molecular chain orientation of the film substrate, application of heat and/or imparting stretch forces to the composite film affects the OTR. A second preferred embodiment is a multilayer lamination or extrusion of PVC films that provides OTR control at a fixed composite film gauge. A third preferred
- 15 embodiment of the invention is a multilayer layer lamination or extrusion formulated using layer distribution to provide a differential heat seal.